JP4223137 Biblio Page 1

esp@cenet

METHOD OF BONDING FILM BODY, AND BONDING APPARATUS AND ADHESION MATERIAL THEREOF

Patent Number: JP4223137
Publication date: 1992-08-13
Inventor(s): UCHIKAWA TAKESHI
Applicant(s):: DAINIPPON INK & CHEM INC
Requested Patent: ☐ JP4223137
Application Number: JP19900406682 19901226
Priority Number(s):
IPC Classification: B29C65/36
EC Classification:
Equivalents:

Abstract

PURPOSE:To improve workability, operating environments, a safe and hygienic conditions and connecting property by roll-spreading film bodies, and interposing ferromagnetics between surfaces to be bonded at the time of connecting them each other or bonding the film bodies and a substrate, and electromagnetic induction-heating and pressing them while transferring on the upper part of the surfaces to be bonded.
CONSTITUTION:Film bodies are suitable to be an inorganic film, sheet, and a plate molding, in particular, to be a asphalt material or the like, and an electromagnetic induction material is suitable to be a type of allowing a vinylchloride resin paste composite to be included in ferromagnetics 10. In the case of bonding a sheet 9 and a substrate 11, the ferromagnetics 10 and a processed body thereof are roll-spread over partially or wholly therebetween. Furthermore, it is preferable that the surface of the substrate 11 is previously treated by a primer 8 which is employed in an application of a waterproof sheet. Thereafter, by a self-advancing electromagnetic induction bonding apparatus comprising semiconductor-inverter type electromagnetic heating device parts 1-4, running mechanism parts 5, 6, and a pressing mechanism 7, electromagnetic induction-heating and pressing are effected while moving on the surfaces to be bonded, and thereby the surfaces to be bonded are connected or bonded to each other.

5

きる。更に、従来方法の如く、熱風、火焔、溶剤を使用せずに、十分な接合性能又は接着力が得られるので、労働安全衛生上、且つ、環境問題上極めて有力な接着方法を提供でき、特にシート防水の施工において有用な方法を提供することができる。

【００２４】本発明は、ドーム屋根、組立倉庫等の被覆用膜体、トラック、貨車等の車輌用被覆材、もしくは地中工事、貯水池等の止水フィルム等の大面積膜体の製造の為に使用すれば、容易に大面積膜体を得られる。

【図面の簡単な説明】

【図１】図１は、本発明に使用する自走式電磁誘導接着装置の一例並びに本発明方法の実施態様を示す斜視図である。

6

【符号の説明】

1	高周波電源部
2	電磁誘導コイル
3	電磁誘導コイル用冷却水チューブ
4	電源コード
5	車輪
6	舵
7	転圧ロール
7′	転圧ロール車軸支持用自在アーム
8	プライマー層
9	防水シート等膜体
１０	強磁性又はその加工体
１１	基盤

【図１】